

In the Claims:

1. (Currently amended) A digital printing machine for printing on textile media, comprising:

a rigid frame;

a first linear motion X axis stage mounted on said frame for X axis motion;

a second linear motion X axis stage mounted on said frame alongside said first X axis stage for X axis motion parallel to X axis motion of said first axis stage, and arranged for operation independently of said first axis stage;

a printing table assembly configured for moving back and forth on each said linear X axis stage and for carrying said textile media; and

a linear motion Y axis stage mounted on said frame perpendicular to said first and second linear motion X axis stages, above said printing table assemblies; and

an array of inkjet nozzles for applying ink on said textile media loaded on said printing table assemblies, said array of inkjet nozzles being mounted on said linear Y axis stage for linear motion perpendicular to said X axis stages;

wherein during said applying said printing, said table assembly passes by said array of inkjet nozzles in said back and forth movements and said array of inkjet nozzles is substantially static on said linear Y axis and wherein said array of inkjet nozzles is configured to move from applying ink on a first of said printing table assemblies to applying ink on a second of said printing table assemblies.

2. (Original) The printing machine of claim 1, wherein each said printing table assembly comprises a media-holding plate and an openable cover pivotally coupled to said media-holding plate for holding said media firmly against said plate.

3. (Original) The printing machine according to claim 2, wherein said media-holding plate includes a raised portion, and said cover includes a window of the same shape and slightly larger than said raised portion.

4. (Original) The printing machine according to claim 1, wherein said linear motion X axis stage is a linear motor driven stage.

5. (Original) The printing machine according to claim 1, wherein said linear motion Y axis stage is a linear motor driven stage.

6. (Original) The printing machine according to claim 1, where at least part of each said printing table assembly is a vacuum table.

7. (Original) The printing machine according to claim 1, wherein said inkjet nozzles include drop-on-demand piezoelectric inkjet nozzles.

8. (Original) The printing machine according to claim 1, wherein said inkjet nozzles include continuous piezoelectric inkjet nozzles.

9. (Original) The printing machine according to claim 1, further comprising a curing unit located above each said printing table assembly and arranged to cure ink on media on said printing table assembly.

10. (Original) The printing machine according to claim 9, wherein said curing unit is an infrared system.

11. (Original) The printing machine according to claim 9, wherein said curing unit is a hot air blowing unit.

12. (Original) The printing machine according to claim 1, further comprising an ironing unit located above each said printing table assembly and arranged to iron media on said printing table assembly.

13. (Currently amended) A printing machine for printing on textiles comprising:

a rigid frame;

a first linear motion X axis stage mounted on said frame;

a second linear X axis stage mounted on said frame alongside said first linear axis stage for parallel and independent side by side ~~said-side~~ X axis motion;

a printing table assembly configured to move back and forth on said linear X axis stage;

a linear motion Y axis stage mounted on said frame perpendicular to said linear X axis stages, above said printing table assembly;

an array of inkjet nozzles for applying ink on a textile media loaded on said printing table assembly, said array of inkjet nozzles being mounted on said linear Y axis stage for linear motion perpendicular to said X axis stages;

a curing unit located above said printing table assembly and arranged to cure ink on said textile media on said printing assembly;

and an ironing unit located above said printing table assembly and arranged to iron said textile media on said printing assembly before printing thereon;

wherein during said applying said printing table assembly passes by said array of inkjet nozzles in said back and forth movements and said array of inkjet nozzles is substantially static on said linear Y axis and wherein said array of inkjet nozzles is configured to move from applying ink on a first of said printing table assemblies to applying ink on a second of said printing table assemblies.

14. (Original) The printing machine according to claim 13, wherein said curing unit is an infrared system.

15. (Original) The printing machine according to claim 13, wherein said curing unit is a hot air blowing unit.

16. (Original) The printing machine according to claim 13, wherein said printing table assembly comprises a media-holding plate and an openable cover pivotally coupled to said media-holding plate for holding said media firmly against said plate.

17. (Original) The printing machine according to claim 16, wherein said media-holding plate includes a raised portion, and said cover includes a window of the same shape and slightly larger than said raised portion.

18. (Original) The printing machine according to claim 13, where at least part of said printing table assembly is a vacuum table.

19. (Original) The printing machine according to claim 13, wherein said printing table assembly is a flattened plate.

20. (Original) The printing machine according to claim 13, wherein said inkjet nozzles include drop-on-demand piezoelectric inkjet nozzles.

21. (Original) The printing machine according to claim 13, wherein said inkjet nozzles include continuous piezoelectric inkjet nozzles.

22. (Currently amended) A printing machine for printing on textiles, comprising:

- a rigid frame;

- a linear motion X axis stage base mounted on said frame;

- a first printing table assembly configured to move back and forth on said linear X axis stage base;

- a second printing table assembly configured to move back and forth on said linear X axis stage base alongside said first printing table assembly and independently of said first printing table assembly;

- a linear motion Y axis stage mounted on said frame perpendicular to said linear X axis stages, above said printing table assemblies; and

- an array of inkjet nozzles for applying ink on a textile media loaded on said printing table assembly, said array of inkjet nozzles being mounted on said linear Y axis stage for linear motion perpendicular to said X axis stage;

- wherein during said applying said printing table assembly passes by said array of inkjet nozzles in said back and forth movements and said array of inkjet nozzles is substantially static on said linear Y axis and wherein said array of inkjet nozzles is configured to move from applying ink on a first of said printing table assemblies to applying ink on a second of said printing table assemblies.

23. (Original) The printing machine of claim 22, further comprising an ironing unit located above said printing table assemblies and arranged to iron media on said printing table assemblies.

24. (Original) The printing machine according to claim 22, further comprising a curing unit located above said printing table assemblies and arranged to cure ink on media on said printing table assemblies.

25. (Original) The printing machine according to claim 24, wherein said curing unit is an infrared system.

26. (Original) The printing machine according to claim 24, wherein said curing unit is a hot air blower.

27. (Original) The printing machine of claim 22, wherein said printing table assembly comprises a media-holding plate and an openable cover pivotally coupled to said media-holding plate for holding said media firmly against said plate.

28. (Original) The printing machine of claim 27, wherein said media-holding plate includes a raised portion, and said cover includes a window of the same shape and slightly larger than said raised portion.

29. (Original) The printing machine according to claim 22, where at least part of each printing table assembly is a vacuum table.

30. (Original) The printing machine according to claim 22, wherein said inkjet nozzles include drop-on-demand piezoelectric inkjet nozzles.

31. (Original) The printing machine according to claim 22, wherein said inkjet nozzles include continuous piezoelectric inkjet nozzles.

32. (Previously Presented) The printing machine according to claim 1, wherein said back and forth movement comprises a circular movement.